## **EXHIBIT A**

## Intertrust v. MS: JCCS Claim Chart

U.S. Patent No. 6,253,193, Asserted Claim 1

$\Box$	'193 Claim 1	IT Construction	MS Construction
1.		The claim contains no requirement of	Claim as a whole: The recited
*	comprising:	a VDE.	method is performed within a VDE.
	,		(See item #86 for Microsoft's
			construction of VDE.)
2.	receiving a digital		
	file including		
	music,		
3.		secure: One or more mechanisms are	secure: (1) A state in which all users
	file in a first secure	employed to prevent, detect or	of a system are guaranteed that all
	memory of a first	discourage misuse of or interference	information, processes, and devices within the system, shall have their
	device;	with information or processes. Such	availability, secrecy, integrity,
1		mechanisms may include concealment, Tamper Resistance,	authenticity and nonrepudiation
1		Authentication and access control.	maintained against all of the
		Concealment means that it is difficult	identified threats thereto.
ĺ		to read information (for example,	(2) "Availability" means the property
		programs may be encrypted).	that information is accessible and
		Tamper Resistance and	usable upon demand by authorized
		Authentication are separately defined	persons, at least to the extent that no
		(see item #67 and item #27,	user may delete the information
		respectively, below). Access control	without authorization.
	•	means that access to information or	(3) "Secrecy," also referred to as
		processes is limited on the basis of	confidentiality, means the property
		authorization. Security is not	that information (including computer
		absolute, but is designed to be	processes) is not made available or
		sufficient for a particular purpose.	disclosed to unauthorized persons or
		·	processes. (4) "Integrity" means the property
			that information has not been altered
			either intentionally or accidentally.
			(5) "Authenticity" means the property
ļ		·	that the characteristics asserted about
			a person, device, program,
			information, or process are genuine
			and timely, particularly as to identity,
			data integrity, and origin integrity.
			(6) "Nonrepudiation" means the
			property that a sender of information
			cannot deny its origination and that a
		·	recipient of information cannot deny
			its receipt.

	<u>'193 Claim 1</u>	IT Construction	MS Construction
4.	storing information	secure: see item #3 above	secure: see item #3 above
i	associated with said		
	digital file in a	budget: Information specifying a	budget: (1) A unique type of
	secure database	limitation on usage.	"method" that specifies a
•	stored on said first		decrementable numerical limitation
	device,	control: Information and/or	on future Use (e.g., copying) of
	said information	programming controlling operations	digital information and how such Use
	including at least	on or use of resources (e.g., content)	will be paid for, if at all.
	one budget control	including (a) permitted, required or	(2) A "method" is a collection of
	and	prevented operations, (b) the nature	basic instructions, and information
		or extent of such operations or (c) the	related to basic instructions, that
		consequences of such operations.	provides context, data, requirements,
			and/or relationships for use in
			performing, and/or preparing to
			perform, basic instructions in relation
			to the operation of one or more electronic appliances.
			electronic apphraices.
			control: (1) Independent, special-
			purpose, Executable, which can
			execute only within a Secure
			Processing Environment (see below).
		·	(2) Each VDE Control is a
			Component Assembly dedicated to a
	•		particular activity (e.g., editing,
		·	modifying another Control, a user-
			defined action, etc.), particular
			user(s), and particular protected
			information, and whose satisfactory
		·	execution is necessary to Allowing
			(see below) that activity.
		·	(3) Each separate information Access
			(see below) or Use is independently
			Controlled by independent VDE
			Control(s).
•		·	(4) Each VDE Control is assembled
			within a Secure Processing
			Environment from independently
			deliverable modular components
			(e.g., Load Modules (see below) or
			other Controls), dynamically in
			response to an information Access or
			Use Request.
			(5) The dynamic assembly of a
			Control is directed by a "blueprint"
			Record (see below) (put in place by
			one or more VDE users) Containing
			control information identifying the
			exact modular code components to be

'193 Claim 1	IT Construction	MS Construction
		assembled and executed to govern (i.e., Control) this particular activity on this particular information by this particular user(s).
		(6) Each Control is independently assembled, loaded and delivered visàvis other Controls.
-		(7) Control information and Controls are extensible and can be configured and modified by all users, and combined by all users with any other
	·	VDE control information or Controls (including that provided by other users), subject only to "senior" user
		Controls.  (8) Users can assign control information (including alternative control information) and Controls to an arbitrarily fine, user-defined
		portion of the protected information, such as a single paragraph of a document, as opposed to being limited to file-based controls.
		(9) VDE Controls reliably limit Use of the protected information to only authorized activities and amounts.
·		For the purposes of the construction of "Control," a "Secure Processing Environment" is defined as: A Secure Processing Environment is uniquely identifiable, self-contained,
		non-circumventable, and trusted by all other VDE nodes to protect the availability, secrecy, integrity and
		authenticity of all information identified in the patent application as being protected, and to guarantee that such information will be accessed and
		Used only as expressly authorized by the associated VDE Controls, and to guarantee that all requested reporting of and payments for protected
		information use will be made. A Secure Processing Environment is formed by, and requires, a Secure Processing Unit having a hardware
	CLADA CONSTRUCTION STAT	Tamper Resistant Barrier encapsulating a processor and internal

		366
<u>'193 Claim 1</u>	IT Construction	MS Construction
		Secure memory. The Tamper Resistant Barrier prevents all unauthorized interference, removal, observation, and other Use of the information and processes within it.
		For the purposes of the construction of "Control," "Allowing" is defined as: Actively permitting an action that otherwise cannot be taken (i.e., is prohibited) by any user, process, or device. In VDE, an action is allowed only through execution (within a Secure Processing Environment) of the VDE Control(s) assigned to the particular action request, and satisfaction of all requirements imposed by such execution.
		For the purposes of the construction of "Control," "Access" is defined as: To satisfactorily perform the steps necessary to obtain something so that it can be Used in some manner (e.g., for information: copied, printed, decrypted, encrypted, saved, modified, observed, or moved, etc.). In VDE, access to protected information is achieved only through execution (within a Secure Processing Environment) of the VDE Control(s) assigned to the particular "access" request, satisfaction of all requirements imposed by such execution, and the Controlled opening of the Secure Container Containing the information.
	·	For the purposes of the construction of "Control," a "Load Module" is defined as: An Executable, modular unit of machine code (which may include data) suitable for loading into memory for execution by a processor. A load module is encrypted (when not within a secure processing unit) and has an Identifier that a calling process must provide to be able to use the load module. A load module is combinable with other load modules,

 		<b></b>	3.50.0
<u>'193 Claim 1</u>	IT Construction		MS Construction
		Executa A load n VDE Pr Environ not load	ciated data, to form ble Component Assemblies. nodule can execute only in a otected Processing ment. Library routines are modules and dynamic link are not load modules.
		of "Con as: A da collection with its of an array accessed of a recor record counit of e be access	ourposes of the construction atrol," a "Record" is defined at a structure that is a on of fields (elements), each own name and type. Unlike whose elements are I using an index, the elements ord are accessed by name. A an be accessed as a collective elements, or the elements can esed individually.
 t least one <b>copy</b> ontrol,	copy: To reproduce. The reproduction must be usable, may incorporate all of the original item or only some of it, and may involve some changes to the item as long as the essential nature of the content remains unchanged.  control: see item #4 above	Digital I complete one loca another different original such that independ (2) Although values in from the "copy" if from the (3) The	1) To reproduce all of a File (see below) or other e physical block of data from ation on a storage medium to location on the same or a storage medium, leaving the block of data unchanged, at two distinct and dent objects exist. Ough the layout of the data in physical storage may differ e original, the resulting is logically indistinguishable e original. resulting "copy" may or may incrypted, ephemeral, usable, isible.
		of "Cop defined storage and Con A digita using th access in it by nan unit. A separate	purposes of the construction by," a "Digital File" is as: A named, static unit of allocated by a "file system" ntaining digital information. If file enables any application is "file system" to randomly its contents and to distinguish me from every other such copy of a digital file is a edigital file. A "file system" ortion of the operating system

			<b>N</b> C C C C C C C C C C C C C C C C C C C
	<u>'193 Claim 1</u>	IT Construction	MS Construction
			that translates requests made by application programs for operations on "files" into low-level tasks that can control storage devices such as disk drives.  control: see item #4 above
			· · · · · · · · · · · · · · · · · · ·
6.	said at least one budget control including a budget specifying the	budget: see item #4 above  control: see item #4 above	budget: see item #4 above  control: see item #4 above
	number of copies which can be made of said digital file;	a budget specifying the number of copies which can be made of said digital file: Normal English, incorporating the separately defined terms: a Budget stating the number of copies that can be made of the	a budget specifying the number of copies which can be made of said digital file: A Budget explicitly stating the total number of copies (whether or not decrypted, long-lived, or accessible) that (since creation of the Budget) are supported to be
		digital file referred to earlier in the claim.	the Budget) are authorized to be made of the Digital File by any and all users, devices, and processes. No process, user, or device is able to make another copy of the Digital File once this number of copies has been made.
			For the purposes of the construction of this phrase, "Digital File" is defined as set forth in item #5, above.
7.	and said at least one copy control controlling the copies made of said digital file;	copy: see item #5 above  control: see item #4 above  controlling: Normal English: exercising authoritative or dominating influence over; directing.	copy: see item #5 above  control: see item #4 above  controlling: (1) Reliably defining and enforcing the conditions and requirements under which an action that otherwise cannot be taken, will
		controlling the copies made of said digital file: The nature of this operation is further defined in later claim elements. In context, the copy control determines the conditions under which a digital file may be Copied and the copied file stored on a second device.	be Allowed, and the manner in which it may occur. Absent verified satisfaction of those conditions and requirements, the action cannot be taken by any user, process or device.  (2) In VDE, an action is Controlled through execution of the applicable VDE Control(s) within a VDE Secure Processing Environment.  (3) More specifically, in VDE, Controlling is effected by use of VDE Controls, VDE Secure Containers, and VDE foundation

'193 Claim 1	IT Construction	MS Construction
		(including VDE Secure Processing Environment, "object registration," and other mechanisms for allegedly individually ensuring that specific Controls are enforced vis-à-vis specific objects (and their content at an arbitrary granular level) and specific "users").
		For the purposes of the construction of "Control (v.)" et al, "Allowed" and "Secure Processing Environment" are defined as set forth in item #4, above.
		controlling the copies made of said digital file: Controlling Uses of and Accesses to all copies of the Digital File, by all users, processes, and devices, by executing each of the recited "at least one" Copy Control(s) within VDE Secure Processing Environment(s). Each Control governs (Controls) only one action, which action may or may not differ among the different "at least one" Controls. All Uses and Accesses are prohibited and incapable of occurring except to the extent Allowed by the "at least one" Copy Control(s).  For the purposes of the construction of this phrase "Secure Processing
		of this phrase, "Secure Processing Environment," "Access" and "Allowed" are defined as set forth in item #4, above.

	<b>193 Claim 1</b>	IT Construction	MS Construction
8.	determining	copied (copy): see item #5 above	copied (copy): see item #5 above
	whether said digital		·
	file may be copied	control: see item #4 above	control: see item #4 above
•	and stored on a		
	second device		·
	based on at least		
	said copy control;		
9.	if said copy control	copied (copy): see item #5 above	copied (copy): see item #5 above
	allows at least a		1
	portion of said	control: see item #4 above	control: see item #4 above
	digital file to be		
	copied and stored		
	on a second device,		
10.	, ., .	copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said		
	digital file;		
11.	, –		
	a portion of said		
	digital file to a		
	second device		
	including a memory		
	and an audio and/or		
12	video output;		
12.	storing said digital file in said memory		
	of said second		
	device; and		
12	including playing		
13.	said music through		
	said audio output.		
1	said addio output.	<u> </u>	<u> 1 </u>

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	'193 Claim 11	IT Construction	MS Construction
14.	11. A method comprising:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #86 for Microsoft's construction of VDE.)
15.	receiving a digital file;		·
16.		secure: see item #3 above	secure: see item #3 above
17.	associated with said digital file in a secure database stored on said first device, said information including a first	secure: see item #3 above  control: see item #4 above	secure: see item #3 above  control: see item #4 above
18.	control;  determining whether said digital file may be copied and stored on a second device based on said first control, said determining step including identifying said second device and determining whether,	copied (copy): see item #5 above control: see item #4 above	copied (copy): see item #5 above  control: see item #4 above
19.		control: see item #4 above  copied (copy): see item #5 above	control: see item #4 above copied (copy): see item #5 above

	'193 Claim 11	IT Construction	MS Construction
20.	if said first control	control: see item #4 above	control: see item #4 above
	allows at least a		
	portion of said	copied (copy): see item #5 above	copied (copy): see item #5 above
	digital file to be		
	copied and stored	·	
	on a second device,		
21.	1 1 .	copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said		
	digital file;		
22.		•	!
	a portion of said		·
1	digital file to a		
	second device	·	
	including a		
	memory and an		
	audio and/or video		
	output;		
23.			
	file in said memory		1
	of said second		
-	device; and		
24.	. –		
	digital file through		
1	said output.		

. Patent No. 6,253,193, Asserted \_\_\_\_ 15

	'193 Claim 15	IT Construction	MS Construction
25.	15. A method comprising:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #93 for Microsoft's construction of VDE.)
26.	receiving a digital file;		
27.		authentication: Identifying (e.g., a person, device, organization, document, file, etc.). Includes uniquely identifying or identifying as a member of a group.	authentication: To establish that the following asserted characteristics of something (e.g., a person, device, organization, document, file, etc.) are genuine: its identity, its data integrity, (i.e., it has not been altered) and its origin integrity (i.e., its source and time of origination).
28.	accessing at least one identifier associated with a first device or with a user of said first device; and	identifier: Information used to identify something or someone (e.g., a password).  In this definition, "identify" means to establish the identity of or to ascertain the origin, nature, or definitive characteristics of; includes identifying as an individual or as a member of a group.	identifier: Any text string used as a label naming an individual instance of what it <i>Identifies</i> (see below)  For the purpose of the construction of "Identifier," " <i>Identify</i> " is defined as: To establish as being a particular instance of a person or thing.
29.	determining whether said identifier is associated with a device and/or user authorized to store said digital file;	identifier: see item #28 above	identifier: see item #28 above
30.	storing said digital file in a first secure memory of said first device, but only if said device and/or user is so authorized, but not proceeding with said storing if said device and/or user is not authorized;	secure: see item #3 above	secure: see item #3 above
31.		secure: see item #3 above control: see item #4 above	secure: see item #3 above  control: see item #4 above

			MC Construction
	<u>'193 Claim 15</u>	IT Construction	MS Construction
	device, said		
	information		
	including at least		
	one control;		
32.	determining	copied (copy): see item #5 above	copied (copy): see item #5 above
	whether said digital		
	file may be copied	control: see item #4 above	control: see item #4 above
	and stored on a		
	second device	·	
	based on said at		
	least one control;		
33.	if said at least one	control: see item #4 above	control: see item #4 above
	control allows at		
	least a portion of	copied (copy): see item #5 above	copied (copy): see item #5 above
	said digital file to		
	be copied and		
	stored on a second		-
	device,		
34.	copying at least a	copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said		
	digital file;		
35.			
	a portion of said		
	digital file to a		
	second device		
ļ	including a memory		
]	and an audio and/or		·
	video output;		
36.	storing said digital		
	file in said memory		
	of said second		
	device; and		
37.	rendering said		
	digital file through		
	said output.		

•			
. Patent No.	6,253,193,	Asserted	n 19

38. 19. A method comprising:  39. receiving a digi	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #86 for Microsoft's
		construction of VDE.)
file at a first device;	al	
40. establishing communication between said find device and a clearinghouse located at a location remote from said first device;	clearinghouse: A provider of financial and/or administrative services for a number of entities; or an entity responsible for the collection, maintenance, and/or distribution of materials, information, licenses, etc.	clearinghouse: (1) A computer system that provides intermediate storing and forwarding services for both content and audit information, and which two or more parties trust to provide its services independently because it is operated under constraint of VDE security. (2) "Audit information" means all information created, stored, or reported in connection with an "auditing" process. "Auditing" means tracking, metering and reporting the usage of particular information or a particular appliance.
41. said first device obtaining authorization information including a key from said clearinghouse;	clearinghouse: see item #40 above	clearinghouse: see item #40 above
42. said first device using said authorization information to access to or ma at least one use said first digital file, including using said key decrypt at least portion of said digital file; and	ce of o a	use: (1) To use information is to perform some action on it or with it (e.g., copying, printing, decrypting, encrypting, saving, modifying, observing, or moving, etc.). (2) In VDE, information Use is Allowed only through execution of the applicable VDE Control(s) and satisfaction of all requirements imposed by such execution.  For the purposes of the construction of "Use," "Allowed" is defined as set forth in item #4, above.
43. receiving a first control from sa clearinghouse	id	control: see item #4 above clearinghouse: see item #40 above

			MS Construction
	<u>'193 Claim 19</u>	IT Construction	MS Construction
44.	9		
	digital file in a		·
	memory of said		
	first device;		
45.	using said first	control: see item #4 above	control: see item #4 above
	control to		
	determine whether	copied (copy): see item #5 above	copied (copy): see item #5 above
	said first digital file		
1	may be copied and		
	stored on a second		
	device;		
46.	if said first control	control: see item #4 above	control: see item #4 above
	allows at least a		
	portion of said first	copied (copy): see item #5 above	copied (copy): see item #5 above
	digital file to be		
,	copied and stored		
	on a second device,		
47.	copying at least a	copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said first		
	digital file;		
48.		•	
	a portion of said	·	
	first digital file to a		
	second device		
	including a	·	
	memory and an		
,	audio and/or video		
	output;		
49.			
	digital file portion		·
	in said memory of		
	said second device;		
<u></u>	and		
50.	rendering said first		
	digital file portion		
	through said		· ·
L	output.	<u> </u>	<u></u>

	(602 Cl.: 2	IT Construction	MS Construction
	<u>'683 Claim 2</u>		Claim as a Whole: The "system" is a
51.	2. A system	The claim contains no requirement	VDE. (See item #86 for Microsoft's
	including:	of a VDE.	construction of VDE.)
			construction of VDE.)
52.	a first apparatus		
	including,		
53.	user controls,	control: see item #4 above	control: see item #4 above
54.	a communications		
34.	port,		
55.	a processor,		
56.	a memory storing:		
57.	a first secure	secure container: A container that is	secure container: (1) A VDE Secure
]"	container	Secure.	Container is a self-contained, self-
	Contamici		protecting data structure which (a)
		In this definition, "container" means	encapsulates information of arbitrary
		a digital file containing linked and/or	size, type, format, and organization,
		embedded items.	including other, nested, containers,
	,		(b) cryptographically protects that
			information from all unauthorized
İ		· ·	Access and Use, (c) provides
1			encrypted storage management
İ		<u> </u>	functions for that information, such
			as hiding the physical storage
1		•	location(s) of its protected contents,
			(d) permits the association of itself or
			its contents with Controls and
.			control information governing
1		·	(Controlling) Access to and Use
			thereof, and (e) prevents such Use or
1			Access (as opposed to merely
			preventing decryption) until it is
			"opened."
1			(2) A Secure Container can be
Ì			opened only as expressly Allowed by
			the associated <b>VDE Control(s)</b> , only
			within a Secure Processing Environment, and only through
	·	1	decryption of its encrypted header.
			(3) A Secure Container is not
			directly accessible to any non-VDE
1			or user calling process. All such calls
		·	are intercepted by VDE.
			(4) The creator of a Secure
			Container can assign (or allow
			others to assign) control information
			to any arbitrary portion of a Secure
			Container's contents, or to an empty
			Secure Container (to govern
	<u></u>		Decure Container (to go ven

		TO CO. A. A.	MC Construction
	<u>'683 Claim 2</u>	IT Construction	MS Construction
			(Control) the later addition of
			contents to the container, and Access
			to or Use of those contents).
			(5) A container is not a Secure
			Container merely because its
			contents are encrypted and signed. A
			Secure Container is itself Secure.
1.	•	·	(6) All VDE-protected information
			(including protected content,
			information about content usage,
			content-control information,
			Controls, and Load Modules) is
	·		encapsulated within a Secure
			Container whenever stored outside a
			Secure Processing Environment or secure database.
			secure database.
			<u>, .</u>
			For the purposes of the construction
			of "Secure Container," "Secure
			Processing Environment," "Load
			Module," "Access" and "Allow" are
			defined as set forth in item #4, above.
58.	containing a	containing: Normal English: having	containing: Physically (directly)
	governed item,	within or holding. In the context of	storing within, as opposed to
		an element contained within a data	addressing (i.e., referring to
		structure (e.g., a secure container),	something by the explicitly identified
1	•	the contained element may be either	location where it is stored, without
		directly within the container or the	directly storing it).
		container may hold a reference	,
		indicating where the element may be	·
		found.	secure containem sec item #57 al
59.	the first secure	secure container: see item #57 above	secure container: see item #57 above
	container governed		·
	item being at least		
	in part encrypted; the first secure		·
	container having been received from		
L	a second apparatus;		L

	•		
$\Box$	'683 Claim 2	IT Construction	MS Construction
60.	a first secure	secure container: see item #57 above	secure container: see item #57 above
	container rule	·	
	at least in part	aspect: Feature, element, property or	aspect: An aspect of an environment
	governing an	state.	is a persistent element or property of
	aspect of access to	-	that environment that can be used to
	or use of said first	use: see item #42 above	distinguish it from other
	secure container		environments.
	governed item,	•	•
	the first secure		use: see item #42 above
	container rule, the	•	·
	first secure		
	container rule		
	having been		
	received from a		
	third apparatus		
	different from said		
	second apparatus;		
	and		
61.	hardware or	secure container: see item #57 above	secure container: see item #57 above
	software used for		
	receiving and	contain (containing): see item #58	contain (containing): see item #58
	opening secure	above	above
	containers,		
	said secure		·
	containers each		
	including the		
	capacity to contain		
	a governed item, a		
	secure container		
	rule being		
	associated with		
ŀ	each of said secure		·
	containers;		
62.	a protected	protected processing environment:	protected processing environment:
	processing	An environment in which processing	(1) A uniquely identifiable, self-
	environment at	and/or data is at least in part	contained computing base trusted by
'	least in part	protected from tampening. The level	all VDE nodes to protect the
1	protecting	of protection can vary, depending on	availability, secrecy, integrity and
	information	the threat.	authenticity of all information
	contained in said		identified in the February, 1995,
	protected	In this definition, "environment"	patent application as being protected,
	processing	means capabilities available to a	and to guarantee that such
	environment from	program running on a computer or	information will be Accessed and
	tampering by a user	other device or to the user of a	Used only as expressly authorized by
	of said first	computer or other device.	VDE Controls.
	apparatus,	Depending on the context, the	(2) At most VDE nodes, the
		environment may be in a single	Protected Processing Environment
		device (e.g., a personal computer) or	is a Secure Processing Environment
1		may be spread among multiple	which is formed by, and requires, a

<u>'683 Claim 2</u>	IT Construction	MS Construction
	devices (e.g., a network).	hardware Tamper Resistant Barrier
ŀ		encapsulating a special-purpose
	contained (containing): see item #58	Secure Processing Unit having a
	above	processor and internal secure
		memory. "Encapsulated" means
		hidden within an object so that it is
	·	not directly accessible but rather is
	•	accessible only through the object's
	·	restrictive interface.
		(3) The Tamper Resistant Barrier
		prevents all unauthorized (intentional
		or accidental) interference, removal,
		observation, and use of the
		information and processes within it,
		by all parties (including all users of
	·	the device in which the Protected
		Processing Environment resides),
		except as expressly authorized by
		VDE Controls.
		(4) A Protected Processing
i i		Environment is under Control of
		Controls and control information
		provided by one or more parties,
		rather than being under Control of
i i		the appliance's users or programs.
1 1	·	(5) Where a VDE node is an
		established financial Clearinghouse,
		or other such facility employing
	<del>(</del>	physical facility and user-identity
	•	Authentication security procedures
		trusted by all VDE nodes, and the
		VDE node does not Access or Use
	* 1 *	VDE-protected information, or
		assign VDE control information, then
		the Protected Processing
		Environment at that VDE node may
		instead be formed by a general-
		purpose CPU that executes all VDE
		"security" processes in protected
		(privileged) mode.
		(6) A Protected Processing
		Environment requires more than just
		verifying the integrity of <b>Digitally</b>
		Signed Executable programming
		prior to execution of the
		programming; or concealment of the
		program, associated data, and
		execution of the program code; or use
	1	of a password as its protection
LL	LAIM CONSTRUCTION STATEME	

			MC Construction
	<u>'683 Claim 2</u>	IT Construction	MS Construction
63.	said protected processing environment including hardware or software used for applying said first secure container rule and a second secure container rule in combination to at least in part govern at least one aspect of access to or use of a governed item contained in a secure container; and	protected processing environment: see item #62 above secure container: see item #57 above aspect: see item #60 above use: see item #42 above contained (containing): see item #58 above	mechanism.  For the purposes of the construction of "Protected Processing Environment," "Secure Processing Environment" and "Access" are defined as set forth in item #4, above.  contained (containing): see item #58 above  protected processing environment: see item #62 above  secure container: see item #57 above aspect: see item #60 above  use: see item #42 above  contained (containing): see item #58 above
64.	hardware or software used for transmission of secure containers to other apparatuses or for the receipt of secure containers from other apparatuses.	secure container: see item #57 above	secure container: see item #57 above

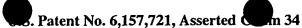
			1		
3. Pater	t No.	6,157,721,	Asserted	<b>M</b> m	1

—т	(701 Cl. ! 1	IT Construction	MS Construction
	<u>'721 Claim 1</u>		
65.	1. A security method comprising:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #86 for Microsoft's construction of VDE.)
66.	digitally signing a first load module with a first digital signature designating the first load module for use by a first device class;	digital signature: A digital value, verifiable with a key, that can be used to determine the source and/or integrity of a signed item (e.g., a file, program, etc.).  Digitally signing is the process of creating a digital signature.  designating: Normal English: indicating, specifying, pointing out or characterizing.  use: see item #42 above device class: A group of devices which share at least one attribute.	digitally signing: (1) Creating a Digital Signature using a secret Key (see below). (2) In symmetric key cryptography, a "secret key" is a Key that is known only to the sender and recipient. In asymmetric key cryptography, a "secret key" is the private Key of a public/private key pair, in which the two keys are related uniquely by a predetermined mathematical relationship such that it is computationally infeasible to determine one from the other.  For the purposes of the construction of "Digital Signing," a "Key" is defined as: A bit sequence used and needed by a cryptographic algorithm to encrypt a block of plain text or to decrypt a block of cipher text. A key is different from a key seed or other information from which the actual encryption and/or decryption key is constructed, Derived, or otherwise identified. In symmetric key cryptography, the same key is used for both encryption and decryption. In asymmetric or "public key" cryptography, two related keys are used; a block of text encrypted by one of the two keys (e.g., the "public key") can be decrypted only by the corresponding key (e.g., the "private key").  digital signature: A computationally unforgeable string of characters (e.g., bits) generated by a cryptographic operation on a block of data using some secret. The string can be generated only by an entity that knows the secret, and hence provides

	<u> '721 Claim 1</u>	IT Construction	MS Construction
			evidence that the entity must have
			generated it.
			designating: Designating something
			for a particular Use means specifying
			it for and restricting it to that Use.
		•	use: see item #42 above
		•	
			device class: The generic name for a
			group of device types. For example,
·			all display stations belong to the same device class. A device class is
			different from a device type. A
			device type is composed of all
	•		devices that share a common model
			number or family (e.g. IBM 4331
			printers).
67.	digitally signing a	digital signature: see item #66 above	digital signature: see item #66 above
07.	second load module		
	with a second	designating: see item #66 above	designating: see item #66 above
	digital signature		
	different from the	use: see item #42 above	use: see item #42 above
	first digital		
	signature, the	device class: see item #66 above	device class: see item #66 above
	second digital	tampar registance. Making tamparing	tamper resistance: The ability of a
	signature	tamper resistance: Making tampering more difficult and/or allowing	Tamper Resistante. The ability of a
	designating the second load module	detection of tampering.	prevent Access, observation, and
	for use by a second	detection of tumpering.	interference with information or
]	device class having	In this definition, "tampering" means	processing encapsulated by the
	at least one of	using (e.g., observing or altering) in	barrier.
	tamper resistance	any unauthorized manner, or	
	and security level	interfering with authorized use.	For the purposes of the construction
	different from the at		of "Tamper Resistance,"
	least one of tamper		"Tamper/Tampering" is defined as:
	resistance and	digitally signing a second load	Using (e.g., observing or altering) in
	security level of the	module with a second digital	any unauthorized manner, or interfering with authorized use.
	first device class;	signature different from the first digital signature, the second digital	
		signature designating the second load	For the purposes of the construction
		module for use by a second device	of "Tamper Resistance," "Access" is
		class having at least one of tamper	defined as set forth in item #4, above.
		resistance and security level different	digitally signing a second load
		from the at least one of tamper	digitally signing a second load module with a second digital
		resistance and security level of the	signature different from the first
.		first device class: Normal English,	digital signature, the second digital
		incorporating the separately defined	signature designating the second load
		terms: generating a Digital Signature	module for use by a second device
<u></u>	TO TO TO TO	I AIM CONSTRUCTION STATEMEN	

	<u> '721 Claim 1</u>	IT Construction	MS Construction
		for the second load module, the	class having at least one of tamper
		Digital Signature Designating that the	resistance and security level different
İ		second load module is for use by a	from the at least one of tamper
	·	second Device Class. This element	resistance and security level of the
ŀ		further requires that the second	first device class: (1) Digitally
		Device Class have a different Tamper	Signing a different ("second") Load
		Resistance or security level than the	Module by using a different
		first Device Class.	("second") Digital Signature as the
	{		signature Key, which signing
			indicates to any and all devices in the
		·	second Device Class that the signor
			authorized and restricted this Load
1			Module for Use by that device.
			(2) No VDE device can perform any
			execution of any Load Module
		•	without such authorization. The
			method ensures that the Load Module
1			cannot execute in a particular Device
			Class and ensures that no device in
			that Device Class has the $Key(s)$
1			necessary to verify the Digital
	,		Signature.
			(3) All devices in the first <b>Device</b>
			Class have the same persistent (not
		•	just occasional) and identified level of
			Tamper Resistance and the same
			persistent and identified level of
			security. All devices in the second  Device Class have the same
1			persistent and identified level of
			Tamper Resistance and same
	• .		persistent and identified level of
			security.
		·	(4) The identified level of <b>Tamper</b>
			Resistance or identified level of
		·	security (or both) for the first <b>Device</b>
			Class, is greater than or less than the
			identified level of Tamper
			Resistance or identified level of
			security for the second Device Class.
			For the numbers of the continue
			For the purposes of the construction
			of this phrase, a "Load Module" is
			defined as set forth in item #4 and
			"Key" is defined as set forth in item
			#66, above.

	'721 Claim 1	IT Construction	MS Construction
68.	distributing the first load module for use	use: see item #42 above	use: see item #42 above
	by at least one device in the first	device class: see item #66 above	device class: see item #66 above
	device class; and		use: see item #42 above
69.	distributing the second load module	use: see item #42 above	
	for use by at least one device in the	device class: see item #66 above	device class: see item #66 above
	second device class.		·



	'721 Claim 34	IT Construction	MS Construction
70.		The claim contains no requirement of	Claim as a Whole: The "Protected
/0.	processing	a VDE	Processing Environment" is part of
	environment	" \DE	and within VDE. (See item #86 for
1	comprising:	protected processing environment:	Microsoft's construction of VDE.)
	comprising.	see item #62 above	The second of th
		500 No. 11 02 400 10	protected processing environment:
		"Protected processing environment"	see item #62 above
1		appears in the preamble of this claim.	
		InterTrust reserves the right to assert	
		that it should not be defined, other	·
		than as requiring the individual claim	
		elements.	
			·
71.	a first tamper	tamper resistant barrier: Hardware	tamper resistant barrier: (1) An active
	resistant barrier	and/or software that provides Tamper	device that encapsulates and separates
	having a first	Resistance.	a Protected Processing Environment
	security level,		from the rest of the world.
İ			(2) It prevents information and
	•	·	processes within the <b>Protected</b>
-			Processing Environment from being
		·	observed, interfered with, and leaving except under appropriate conditions
ŀ			ensuring security.
			(3) It also Controls external access to
			the encapsulated Secure resources,
			processes and information.
			(4) A Tamper Resistant Barrier is
			capable of destroying protected
			information in response to Tampering
	· ,		attempts.
			-
		·	For the purposes of the construction of
			"Tamper Resistant Barrier,"
			"Tamper/Tampering" is defined as set
			forth in item #67, above.
72.	a first secure	secure: see item #3 above	secure: see item #3 above
	execution space,		
	and		

	'721 Claim 34	IT Construction	MS Construction
73.	at least one	tamper resistant barrier: see item #71	tamper resistant barrier: see item #71
	arrangement within	above	above
	the first tamper		
	resistant barrier	secure: see item #3 above	secure: see item #3 above
	that prevents the		
	first secure	executable: A computer program that	executable: A cohesive series of
1	execution space	can be run, directly or through	machine code instructions in a format
	from executing the	interpretation.	that can be loaded into memory and
	same executable		run (executed) by a connected
1.	accessed by a		processor.
1	second secure		
1	execution space		
ŀ	having a second		
	tamper resistant		
	barrier with a		
1	second security		
	level different from		
	the first security		
1	level.		

		4	
. Patent	No. 5,920,861,	Asserted (	n 58

	'861 Claim 58	IT Construction	MS Construction
74.		The claim contains no requirement of	Claim as a whole: The recited method
'	creating a first	a VDE.	is performed within a VDE. (See item
	secure container,		#86 for Microsoft's construction of
	said method	secure container: see item #57 above	VDE.)
	including the		
	following steps;	·	secure container: see item #57 above
75.			
13.	descriptive data		
	structure, said		
	descriptive data		•
	structure including		
	or addressing		
76.		secure container: see item #57 above	secure container: see item #57 above
'0.	information at least		
	in part describing a		
	required or desired		
1	organization of a		, .
1	content section of		
	said first secure		
	container, and		
77.		secure container: see item #57 above	secure container: see item #57 above
	information at least		
	in part specifying at		
	least one step		
	required or desired		
	in creation of said		
	first secure		
	container;	. 467 -1	secure container: see item #57 above
78.	, –	secure container: see item #57 above	secure container. see item #37 above
	descriptive data		
	structure to organize		
	said first secure		
	container contents;	secure container: see item #57 above	secure container: see item #57 above
79		secure container. see item #37 above	Secure container.
1	information to at		
	least in part		
Ì	determine specific		
	information		
1	required to be		
	included in said first		•
	secure container		
L	contents; and		

	'861 Claim 58	IT Construction	MS Construction
80.	identifying at least.	control (controlling): see item #7 above	control (controlling): see item #7 above
	one rule designed to control at least one	aspect: see item #60 above	aspect: see item #60 above
	aspect of access to or use of at least a	use: see item #42 above	use: see item #42 above
	portion of said first secure container	secure container: see item #57 above	secure container: see item #57 above
1	contents.		<u> </u>

	(001 Cl-1 1	IT Construction	MS Construction
	<u>'891 Claim 1</u>	<del></del>	Claim as a whole: The recited
81.	1. A method for	The claim contains no requirement of a	method is performed within a VDE.
	using at least one	VDE.	(See item #86 for Microsoft's
İ	resource processed		construction of VDE.)
	in a secure	secure: see item #3 above	construction of VDE.)
	operating		secure: see item #3 above
	environment at a		Secure. See Item #3 above
	first appliance, said		
	method comprising:	1	securely (secure): see item #3 above
82.	securely receiving a	securely (secure): see item #3 above	securery (secure). see hem #3 above
	first entity's control	. I are item #4 chayo	control: see item #4 above
	at said first	control: see item #4 above	CONTOI. See ICHI 114 above
	appliance, said first		
1	entity being located		
	remotely from said		
1	operating		
	environment and		
	said first appliance;	securely (secure): see item #3 above	securely (secure): see item #3 above
83.	securely receiving a	securery (secure).	<u> </u>
	second entity's control at said first	control: see item #4 above	control: see item #4 above
	appliance, said	Control. See Item # 1 des / c	
	second entity being		
	located remotely	·	<u> </u>
	from said operating		
	environment and		
	said first appliance,		·
1	said second entity		
	being different from	,	
1	said first entity; and		
84.	securely processing	securely (secure): see item #3 above	securely (secure): see item #3 above
l	a data item at said	•	
	first appliance, using		
	at least one resource,		
	including		securely (secure): see item #3 above
85.		securely (secure): see item #3 above	securely (secure). see item #3 above
	at said first	:. #40 ab assa	use: see item #42 above
	appliance through	use: see item #42 above	use. See Item #42 above
ļ	use of said at least	tuli see item #4 above	control: see item #4 above
	one resource said	control: see item #4 above	Control. See Rein #4 above
	first entity's control	securely applying, at said first	securely applying, at said first
	and said second	appliance through use of said at least	appliance through use of said at least
1	entity's control to	one resource said first entity's control	one resource said first entity's control
	govern use of said	and said second entity's control to	and said second entity's control to
	data item.	govern use of said data item: Normal	govern use of said data item: (1)
		English, incorporating the separately	Processing the resource (component
		defined terms: the first entity's Control	part of a first appliance's Secure
1		defined terms: the first entity's Control	1 part of a first appliance 3 decare

			760.0
	<u>'891 Claim 1</u>	IT Construction	MS Construction
		and the second entity's Control are	Operating Environment) within the
		Securely applied to govern Use of the	Secure Operating Environment's
1		data item, the act of Securely applying	special-purpose Secure Processing
	:	involving use of the resource.	Unit (SPU) to execute the first
			Control and second Control in
			combination within the SPU.
			(2) This execution of these Controls
			governs (Controls) all Use of the
		•	data item by all users, processes, and
1			devices.
	'		(3) The processing of the resource
1	·		and execution of the Controls cannot
			be observed from outside the SPU
			and is performed only after the
			integrity of the resource and
		·	Controls is cryptographically
		·	verified.
			(4) A Secure Processing Unit is a
1			special-purpose unit isolated from the
1			rest of the world in which a hardware
1			Tamper Resistant Barrier
		·	encapsulates a processor and internal
		·	Secure memory.
1			(5) The processor cryptographically verifies the integrity of all code
1			loaded from the Secure memory
			prior to execution, executes only the
			code that the processor has
			authenticated for its Use, and is
			otherwise Secure.
1			

Patent No.	5,892,900, Asserted	h: 155

	'900 Claim 155	IT Construction	MS Construction
<u> </u>			Claim as a Whole: The "virtual
86.	155. A virtual	Virtual Distribution Evironment: This	distribution environment" is VDE.
	distribution	term is contained in the preamble of	distribution environment is VDE.
	environment	the claim and should not be defined,	Virtual Distribution Environment:
Ċ	comprising	other than as requiring the individual	(1) Data Security and Commerce
		claim elements.	World: InterTrust's February 13,
			1995, patent application described as
		Without waiving its position that no	its "invention" a Virtual Distribution
		separate definition is required, if	Environment ("VDE invention") for
		required to propose such a definition,	securing, administering, and auditing
l		InterTrust proposes the following:	all security and commerce digital
		secure, distributed electronic	information within its multi-node
l		transaction management and rights	world (community). VDE guarantees
l		protection system for controlling the	to all VDE "participants" identified in
		distribution and/or other usage of	the patent application that it will limit
		electronically provided and/or stored	all Access to and Use (i.e., interaction)
		information.	of such information to authorized
ŀ	·		activities and amounts, will ensure any
			requested reporting of and payment
			for such Use, and will maintain the
l			availability, secrecy, integrity, non-
İ			repudiation and authenticity of all
			such information present at any of its
			nodes (including protected content,
			information about content usage, and content Controls.).
			Content Controls.
			VDE is Secure against at least the
	,		threats identified in the Feburary
			1995, patent application to this
			availability (no user may delete the
1			information without authorization),
			secrecy (neither available nor
			disclosed to unauthorized persons or
			processes), integrity (neither
			intentional nor accidental alteration),
1			non-repudiation (neither the receiver
1			can disavow the receipt of a message
			nor can the sender disavow the
			origination of that message) and
1			authenticity (asserted characteristics
1			are genuine). VDE further provides
			and requires the components and
	1	1	capabilities described below.
			Anything less than or different than
			this is not VDE or the described
			"invention."
	1		

<u> </u>	'900 Claim 155	IT Construction	MS Construction
	700 Claim 133		(2) Secure Processing Environment: At each node where VDE-protected information is Accessed, Used, or assigned control information, VDE requires a Secure Processing Environment (as set forth in item #6).
			(3) <u>VDE Controls</u> : <b>VDE Allows</b> Access to or <b>Use</b> of protected information and processes only through execution of (and satisfaction of the requirements imposed by) <b>VDE</b> Control(s).
			(4) <u>VDE Secure Container</u> : See construction of <b>Secure Container</b> (see item #57).
			(5) Non-Circumventable: VDE is non-circumventable (sequestered). It intercepts all attempts by any and all users, processes, and devices, to Access or Use, such as observing, interfering with, or removing) protected information, and prevents all such attempts other than as allowed by execution of (and satisfaction of all requirements imposed by) associated VDE Controls within Secure Processing Environment(s).
			(6) Peer to Peer: VDE is peer-to-peer. Each VDE node has the innate ability to perform any role identified in the patent application (e.g., end user, content packager, distributor, Clearinghouse, etc.), and can protect information flowing in any direction between any nodes. VDE is not client-server. It does not predesignate and restrict one or more nodes to act solely as a "server" (a provider of information (e.g., authored content, control information, etc.) to other nodes) or "client" (a requestor of such information). All types of protected-content transactions can proceed without requiring interaction with any server.

<u>'900 Claim 155</u>	IT Construction	MS Construction
	;	
		(7) Comprehensive Range of Functions: VDE comprehensively governs (Controls) all security and commerce activities identified in the patent application, including (a) metering, budgeting, monitoring, reporting, and auditing information usage, (b) billing and paying for information usage, and (c) negotiating, signing and enforcing contracts that establish users' rights to Access or Use information.
		(8) <u>User-Configurable</u> : The specific protections governing (Controlling) specific VDE-protected information are specified, modified, and negotiated by VDE's users. For example, VDE enables a consumer to place limits on the nature of content that may be Accessed at her node (e.g., no R-rated material) or the amount of money she can spend on viewing certain content, both subject only to other users' senior Controls.
		(9) General Purpose; Universal: VDE is universal as opposed to being limited to or requiring any particular type of appliance, information, or commerce model. It is a single, unified standard and environment within which an unlimited range of electronic rights protection, data security, electronic currency, and banking applications can run.
		(10) Flexible: VDE is more flexible than traditional information security and commerce systems. For example, VDE allows consumers to pay for only the user-defined portion of information that the user actually uses, and to pay only in proportion to any quantifiable VDE event (e.g., for only the number of paragraphs displayed from a book), and allows editing the content in VDE containers while maintaining its security.

		TO COLUMN	MC Compton Alice
	<u>'900 Claim 155</u>	IT Construction	MS Construction
			For the purposes of the construction of "VDE," "Secure Processing Environment" and "Access" are defined as set forth in item #4, above.
87.	a first host processing environment comprising	host processing environment: This term is explicitly defined in the claim and therefore needs no additional definition. It consists of those elements listed in the claim.  Without waiving its position that no separate definition is required, if required to propose such a definition, InterTrust proposes the following: a Protected Processing Environment incorporating software-based security.	host processing environment: (1) A processing environment within a VDE node which is not a Secure Processing Environment.  (2) A "host processing environment" may either be "secure" or "not secure."  (3) A "secure host processing environment" is a self-contained Protected Processing Environment, formed by loaded, Executable programming executing on a general purpose CPU (not a Secure Processing Unit) running in protected (privileged) mode.  (4) A "non-secure host processing environment" is formed by loaded, Executable programming executing on a general purpose CPU (not a Secure Processing Unit) running in user mode.  For the purposes of the construction of "Host Processing Environment," a "Secure Processing Environment" is defined as set forth in item #4, above.
88.	a central processing unit;		
89.	main memory operatively connected to said central processing unit;	·	
90.	mass storage operatively connected to said central processing unit and said main memory;		

		VT C	MC Construction
	<u>'900 Claim 155</u>	IT Construction	MS Construction
91.	said mass storage		
	storing tamper		·
	resistant software		
	designed to be		
	loaded into said		
	main memory and		
	executed by said		
	central processing		
	unit, said tamper		·
	resistant software		
	comprising:		
92.	machine check	derives: Normal English: obtains,	derives: To retrieve from a specified
	programming which	receives or arrives at through a	source.
	derives information	process of reasoning or deduction. In	
	from one or more	the context of computer operations,	
	aspects of said host	the "process of reasoning or	
	processing	deduction" constitutes operations	
	environment,	carried out by the computer.	•
		aspect: see item #60 above	aspect: see item #60 above
		host processing environment: see item #87 above	host processing environment: see item #87 above
		derives information from one or more	derives information from one or more
		aspects of said host processing	aspects of said host processing
		environment: Normal English,	environment: (1) Deriving from the
		incorporating the separately defined	Host Processing Environment
		terms: Derives (including creates)	hardware one or more values that
		information based on at least one	uniquely and persistently identify the
	•	Aspect of the previously referred to	Host Processing Environment and
		Host Processing Environment.	distinguish it from other Host
			Processing Environments.
	•		(2) The "one or more aspects of said
			host processing environment" are
			persistent elements or properties of the
			Host Processing Environment itself
1			that are capable of being used to
			distinguish it from other
			environments, as opposed to, e.g., data
			or programs stored within the mass
			storage or main memory, or processes
			executing within the Host Processing Environment.
			Environment.
93.	_		
	locations storing		
	said information;		

	'900 Claim 155	IT Construction	MS Construction
94.	integrity programming which causes said machine check programming to derive said information, compares said information to information previously stored in said one or more storage locations, and	derive: see item #92 above  compares: Normal English: examines for the purpose of noting similarities and differences. "Comparison" refers to the act of comparing.	derive: see item #92 above  compares: A processor operation that evaluates two quantities and sets one of three flag conditions as a result of the comparison – greater than, less than, or equal to.
95.	generates an indication based on the result of said comparison; and	comparison (compares): see item #94 above	comparison (compares): see item #94 above
96.			
97.	said one or more actions including at least temporarily halting further processing.		

	'912 Claim 8	IT Construction	MS Construction
98.	8. A process comprising the following steps:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #93 for Microsoft's construction of VDE.)
99.	accessing a first record containing information directly or indirectly identifying one or more elements of a first component assembly,	component assembly: Components are code and/or data elements that are independently deliverable. A Component Assembly is two or more components associated together. Component Assemblies are utilized to perform operating system and/or applications tasks.	containing: see item #58 above  component assembly: (1) A cohesive  Executable component created by a channel which binds or links together two or more independently deliverable Load Modules, and associated data.  (2) A Component Assembly is assembled, and executes, only within a VDE Secure Processing Environment.  (3) A Component Assembly is assembled dynamically in response to, and to service, a particular contentrelated activity (e.g., a particular Use request).  (4) Each VDE Component Assembly is assigned and dedicated to a particular activity, particular user(s), and particular protected information.  (5) Each Component Assembly is independently assembled, loadable and deliverable vis-à-vis other Component Assembly is directed by a "blueprint" Record Containing control information for this particular activity on this particular information by this particular user(s).  (7) Component Assemblies are extensible and can be configured and reconfigured (modified) by all users, and combined by all users with other Component Assemblies, subject only to other users' "senior" Controls.  For the purposes of the construction of "Component Assembly," "Load Module," "Secure Processing Environment" and "Record" are defined as set forth in item #4 above.
100.	at least one of said elements including at least some	executable programming (executable): see item #73 above	executable programming: A cohesive series of machine code instructions, comprising a computer program, in a

EXHIBIT A TO JOINT CLAIM CONSTRUCTION STATEMENT
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	'912 Claim 8	IT Construction	MS Construction
	executable programming,		format that can be loaded into memory and run (executed) by a connected processor. A "computer program" is a complete series of definitions and instructions that when executed on a computer will perform a required or requested task.
101.	at least one of said elements constituting a load module,		
102.		executable programming (executable): see item #73 above	executable programming: see item #100 above
103.		aspect: see item #59 above  use: see item #42 above  identifying at least one aspect of an execution space required for use and/or execution of the load module:  Normal English, incorporating the separately defined terms: identifying an Aspect (e.g. security level) of an execution space that is needed in order for the load module to execute or otherwise be used.	aspect: see item #59 above  use: see item #42 above  identifying at least one aspect of an execution space required for use and/or execution of the load module: (1) Defining fully, without reference to any other information, at least one of the persistent elements or properties (Aspects) (that are capable of being used to distinguish it from other environments of an execution space) that are required for any Use, and/or for any execution, of the Load Module. (2) An execution space without all of those required aspects is incapable of making any such execution and/or other Use (e.g., Copying, displaying, printing) of the Load Module.  For the purposes of the construction of this phrase, a "Load Module" is defined as set forth in item #4, above

			7.00
	'912 Claim 8	IT Construction	MS Construction
104.	said execution	identifier: see item #28	identifier: see item #28
	space identifier		·
	provides the		
	capability for		
	distinguishing	·	
	between execution		
	spaces providing a		
	higher level of		
	security and		
	execution spaces		
	providing a lower		
	level of security;		
105.			
	information to		
	identify and locate	·	
	said one or more		
100	elements;		
106.	_		·
	located one or more		
107	elements;	securely: see item #3 above	securely: see item #3 above
107.	securely assembling said one	section. See Rem iis above	
	or more elements to	component assembly: see item #98	component assembly: see item #98
	form at least a	above	above
	portion of said first		·
	component		
	assembly;		
108.		executable programming (executable):	executable programming: see item
	some of said	see item #73 above	#100 above
	executable		
	programming; and		·
109.	checking said	·	
	record for validity		
	prior to performing		
	said executing step.		<u> </u>

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	'912 Claim 35	IT Construction	MS Construction
- <u></u> -		The claim contains no requirement of	Claim as a whole: The recited method
110.	35. A process	a VDE.	is performed within a VDE. (See item
	comprising the	a VDE.	#86 for Microsoft's construction of
	following steps:	·	VDE.)
			VDE.
111.	at a first		
	processing		
	environment		
	receiving a first		
	record from a		·
	second processing		·
	environment		
	remote from said		
	first processing		
	environment;		
112.	said first record	secure container: see item #57 above	secure container: see item #57 above
	being received in a		
	secure container;		toining, assistant #57 share
113.	said first record	containing: see item #57 above	containing: see item #57 above
	containing		announce against the three three three
	identification	component assembly: see item #98	component assembly: see item #98
	information	above	above
	directly or	•	
	indirectly		
	identifying one or		
	more elements of a		
1	first component		
	assembly;		executable programming: see item
114.	at least one of said	executable programming (executable): see item #73 above	#100 above
	elements including	See Relli # 13 above	1100 40010
	at least some	·	
	executable		
1	programming;	component assembly: see item #98	component assembly: see item #98
115.		above	above
	assembly allowing	augve	
1	access to or use of	use: see item #42 above	use: see item #42 above
	specified	use. See Item #42 above	
111	information;	secure container: see item #57 above	secure container: see item #57 above
116.	said secure	Secure container. See Rein #37 above	Service Committee.
	container also		·
	including a first of		:
	said elements;		<u> </u>
117.	accessing said first		
	record;		
118.	using said		
	identification		
	information to		
	identify and locate	<u> </u>	

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	<u>'912 Claim 35</u>	IT Construction	MS Construction
	said one or more		
	elements;		
119.	said locating step		
	including locating	•	
	a second of said	•	
	elements at a third		
	processing		
	environment		
1	located remotely		· ·
	from said first		·
	processing		
	environment and		
	said second		
	processing		,
	environment;		·
120.	accessing said		
	located one or		
	more elements;		
121.	said element		
	accessing step		
	including		
	retrieving said		
	second element		
	from said third		
	processing		
	environment;	1 / 2 2 2 2 2 2 2	securely (secure): see item #3 above
122.	securely	securely (secure): see item #3 above	securery (secure). see item #3 above
	assembling said		component assembly: see item #98
	one or more	component assembly: see item #98 above	above
1	elements to form	auuvc	40010
	at least a portion of said first		
			·
	component assembly		
	specified by said first record; and		
123.	executing at least	executable programming (executable):	executable programming: see item
123.	some of said	see item #73 above	#100 above
	executable	300 1011 11 73 400 10	
1	programming,		
124.			
124.	taking place at said		·
	first processing		
	environment.		
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